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Timestamp: [year=2007; month=12; day=6; hr=12; min=53; sec=5; ms=449; ]

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Application No: 10576122 Version No: 3.0

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# SEQUENCE LISTING

<110> MORGAN, Brian  
 BURK, Mark  
 LEVIN, Michael  
 ZHU, Zoulin  
 CHAPLIN, Jennifer  
 KUSTEDJO, Karen  
 HUANG, Zilin  
 GREENBERG, William

<120> METHODS FOR MAKING SIMVASTATIN AND INTERMEDIATES

<130> 564462012800

<140> 10576122

<141> 2007-11-16

<150> PCT/US2004/034913

<151> 2004-10-20

<150> US 60/542,100

<151> 2004-02-04

<150> US 60/513,237

<151> 2003-10-21

<160> 6

<170> PatentIn version 3.1

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<211> 1629

<212> DNA

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<223> Soil sample

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Glu Gly Pro	Ile Pro Gln Pro	Ala Ile Phe	Gly Ser Thr	Asp Pro Ile
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Val Ala Pro	Glu Arg Cys Glu	Val Arg Ala	Val Thr Arg	Pro Thr Lys
65		70		75
Asp Ser Glu	Ile Arg Ile Glu	Leu Trp Leu	Pro Leu Ser	Gly Trp Asn
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Gly Lys Tyr	Leu Gln Ile Gly	Ser Gly Gly	Trp Ala Gly	Ser Ile Asn
	100		105	110
Arg Thr Gly	Leu Ile Gly Pro	Leu Gln Arg	Gly Tyr Ala	Val Ala Ala
	115		120	125
Thr Asp Asn	Gly His Ile Ser	Glu Gly Leu	Val Pro Asp	Ala Ser Trp
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Ala Ile Gly	His Pro Gln Lys	Leu Ile Asp	Phe Gly Tyr	Arg Ala Val
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His Glu Thr	Ser Val Gln Ala	Lys Ala Ile	Leu Arg Ala	Tyr Phe Gly
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Arg Gly Gln	Asp Leu Ser Tyr	Phe Ser Gly	Cys Ser Asn	Gly Gly Arg
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Glu Ala Leu	Met Glu Ala Gln	Arg Tyr Pro	Glu Asp Phe	Glu Gly Ile
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Ile Ala Gly	Ala Pro Ala Asn	Asn Trp Ser	Arg Leu Phe	Thr Gly Phe
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				240

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260 265 270

Pro Arg Ser Met Val Cys Thr Ala Asp Asp Ala Ser Asp Cys Leu Thr  
275 280 285

Glu Gly Gln Val Ala Thr Leu His Arg Ile Tyr Ser Gly Pro Thr Asn  
290 295 300

Pro Arg Thr Gly Glu Arg Ile Phe Pro Gly Tyr Pro Met Gly Thr Glu  
305 310 315 320

Ala Val Pro Gly Gly Trp Val Pro Trp Ile Val Ser Ala Ser Ser Glu  
325 330 335

Val Pro Ser Ile Gln Ala Ser Phe Gly Asn Ser Tyr Tyr Gly His Ala  
340 345 350

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355 360 365

Asp Val Ala Phe Gly Asp Ala Lys Ala Gly Pro Val Leu Asn Ala Thr  
370 375 380

Asn Pro Asp Leu Arg Ser Phe Arg Ala Asn Gly Gly Lys Leu Ile Gln  
385 390 395 400

Tyr His Gly Trp Gly Asp Ala Ala Ile Thr Ala Phe Ser Ser Ile Asp  
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Tyr Tyr Glu Asn Val Arg Ala Phe Leu Asp Arg Phe Pro Asp Pro Arg  
420 425 430

Ser Glu Asn Thr Asp Ile Asp Gly Phe Tyr Arg Leu Phe Leu Val Pro  
435 440 445

Gly Met Gly His Cys Ser Gly Gly Ile Gly Pro Ser Ser Phe Gly Asn  
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Gly Phe Arg Ser Ala Arg Thr Asp Ala Glu His Asp Leu Leu Ser Ala

465 470 475 480

Leu Glu Ala Trp Val Glu Arg Asp Thr Ala Pro Glu Arg Leu Ile Gly  
485 490 495

Thr Gly Thr Ala Val Gly Asp Pro Thr Ala Thr Leu Thr Arg Pro Leu  
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<212> DNA

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35 40 45

Ala Arg Ala Asp Thr Gln Thr Pro Trp Thr Ala Glu Thr Val Ser Ile  
50 55 60

Val Phe Ser Ser Thr Lys Gly Ala Thr Ala Leu Cys Ala His Met Leu  
65 70 75 80

Ala Ser Arg Gly Gln Leu Asp Leu Asp Ala Pro Val Ala Thr Tyr Trp  
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Pro Glu Phe Ala Gln Ala Gly Lys Ala Arg Ile Pro Val Lys Met Leu  
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115

120

125

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Met Gly Trp Leu Val Gly Glu Val Val Arg Arg Val Ser Gly Lys Ser  
165 170 175

Leu Gly Thr Phe Phe Gln Glu Glu Ile Ala Arg Pro Leu Gly Leu Asp  
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Phe Trp Ile Gly Leu Pro Ala Glu Gln Glu Ala Arg Val Ala Pro Met  
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Ile Ala Ala Glu Pro Asp Pro Gln Ser Leu Phe Phe Gln Glu Val Ala  
210 215 220

Lys Pro Gly Ala Leu Gln Ser Leu Val Leu Leu Asn Ser Gly Gly Tyr  
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Met Gly Ala Gln Pro Glu Tyr Asp Ser Arg Ala Ala His Ala Ala Glu  
245 250 255

Ile Gly Ala Ala Gly Gly Ile Thr Asn Ala Arg Gly Leu Ala Gly Met  
260 265 270

Tyr Ala Pro Leu Ala Cys Gly Gly Lys Leu Lys Gly Val Glu Leu Val  
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Ser Pro Asp Met Leu Ala Arg Met Ser Arg Val Ala Ser Ala Thr Gly  
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Arg Asp Ala Val Leu Met Met Pro Thr Arg Phe Ala Leu Gly Phe Met  
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Lys Ser Met Asp Asn Arg Arg Glu Pro Ala Gly Val Gln Asp Ser Ala  
325 330 335

Leu Phe Gly Glu Glu Ala Phe Gly His Val Gly Ala Gly Gly Ser Phe  
340 345 350

Gly Phe Ala Asp Pro Lys Ala Gly Met Ser Phe Gly Tyr Thr Met Asn  
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35 40 45

Ala Gln Thr Val Thr Thr Gly Ser Leu Thr Pro Pro Gly Ser Thr Asn  
50 55 60

Pro Ile Thr Asp Leu Pro Pro Phe Cys Arg Val Thr Gly Ala Ile Ala  
65 70 75 80

Pro	Thr	Ser	Glu	Ser	His	Ile	Leu	Phe	Glu	Val	Trp	Leu	Pro	Leu	Asp	85	90	95
Lys	Trp	Asn	Gly	Lys	Phe	Ala	Gly	Val	Gly	Asn	Gly	Gly	Trp	Ala	Gly	100	105	110
Ile	Ile	Ser	Phe	Gly	Ala	Leu	Gly	Ser	Gln	Leu	Lys	Arg	Gly	Tyr	Ala	115	120	125
Thr	Ala	Ser	Thr	Asn	Thr	Gly	His	Glu	Ala	Ala	Pro	Gly	Met	Asn	Ala	130	135	140
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Asp	Gly	Ile	Val	Ala	Gly	Met	Pro	Ala	Asn	Asn	Trp	Thr	Arg	Leu	Met	210	215	220
Ala	Gly	Asp	Leu	Asp	Ala	Ile	Leu	Ala	Val	Ser	Val	Asp	Pro	Ala	Ser	225	230	235
His	Leu	Pro	Val	Ser	Ala	Leu	Gly	Leu	Leu	Tyr	Arg	Ser	Val	Leu	Ala	245	250	255
Ala	Cys	Asp	Gly	Ile	Asp	Gly	Val	Val	Asp	Gly	Val	Leu	Glu	Asp	Pro	260	265	270
Arg	Arg	Cys	Arg	Phe	Asp	Pro	Ala	Val	Leu	Met	Cys	Lys	Ala	Asp	Gln	275	280	285
Asn	Pro	Asp	Gly	Cys	Leu	Thr	Pro	Ala	Gln	Val	Glu	Ala	Ala	Arg	Arg	290	295	300

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Gly Leu Ala Pro Gly Ser Glu Pro Phe Trp Pro His Arg Asn Pro Ala  
325 330 335

Asn Pro Phe Pro Ile Pro Ile Ala His Tyr Lys Trp Leu Val Phe Ala  
340 345 350

Asp Pro Asn Trp As